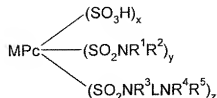


# IN THE CLAIMS

1. (original): A mixture of phthalocyanine dyes of Formula (1) and salts thereof:

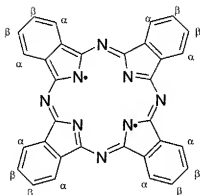


Formula (1)

wherein:

M is Cu or Ni;

Pc represents a phthalocyanine nucleus of formula;



L is optionally substituted  $\text{C}_{1-20}$  alkylene, alkenylene or alkynylene, optionally interrupted by  $-\text{O}-$ ,  $-\text{NH}-$  or  $-\text{S}-$ ;

$\text{R}^1$ ,  $\text{R}^2$ ,  $\text{R}^3$  and  $\text{R}^4$  independently are H or optionally substituted  $\text{C}_{1-4}$  alkyl;

$\text{R}^5$  is H or an optionally substituted hydrocarbyl; or

$\text{R}^4$  and  $\text{R}^5$  together with the nitrogen atom to which they are attached represent an optionally substituted aliphatic or aromatic ring system;

x is 0.1 to 3.8;

y is 0.1 to 3.8;

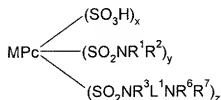
z is 0.1 to 3.8;

the sum of  $(x+y+z)$  is 4;

the substituents, represented by x, y and z, are attached only to a  $\beta$ -position on the phthalocyanine ring; and

the mixture of dyes of Formula (1) are obtainable by a process which comprises cyclisation of  $\beta$ -sulfo substituted phthalic acid, phthalonitrile, iminoisoindoline, phthalic anhydride, phthalimide or phthalamide.

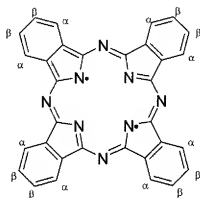
2. (original): A mixture of phthalocyanine dyes according to claim 1 of Formula (2) and salts thereof:



Formula (2)

wherein:

M Cu or Ni;  
 Pc represents a phthalocyanine nucleus of formula:



$\text{L}^1$  is optionally substituted  $\text{C}_{1-8}$  alkylene optionally interrupted by  $-\text{O}-$ ,  $-\text{NH}-$  or  $-\text{S}-$ ;

$\text{R}^1$ ,  $\text{R}^2$ ,  $\text{R}^3$  and  $\text{R}^6$  independently are H or optionally substituted  $\text{C}_{1-4}$  alkyl;

$\text{R}^2$  is H, optionally substituted aryl, optionally substituted alkyl or optionally heterocyclyl;  
 or

$\text{R}^6$  and  $\text{R}^7$  together with the nitrogen atom to which they are attached represent an optionally substituted 5 or 6 membered aliphatic or aromatic ring;

x is 0.1 to 3.8;

y is 0.1 to 3.8;

z is 0.1 to 3.8;

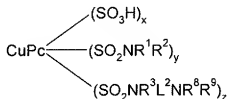
the sum of (x+y+z) is 4;

the substituents, represented by x, y and z, are attached only to a  $\beta$ -position on the phthalocyanine ring; and .

the mixture of dyes of Formula (2) are obtainable by a process which comprises cyclisation of  $\beta$ -sulfo substituted phthalic acid, phthalonitrile, iminoisoindoline, phthalic anhydride, phthalimide or phthalamide.

3. (original): A mixture of phthalocyanine dyes according to either claim 1 or claim 2 wherein M is Cu.

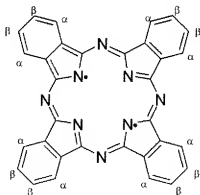
4. (previously presented): A mixture of phthalocyanine dyes according to claim 1 or claim 2 of Formula (3) and salts thereof:



Formula (3)

wherein:

Pc represents a phthalocyanine nucleus of formula;



$\text{L}^2$  is optionally substituted  $\text{C}_{1-4}$  alkylene;

$\text{R}^1$ ,  $\text{R}^2$ ,  $\text{R}^3$  and  $\text{R}^8$  independently are H or methyl;

R<sup>9</sup> is H or phenyl bearing at least one sulfo, carboxy or phosphato substituent and having further optional substituents; or

R<sup>8</sup> and R<sup>9</sup> together with the nitrogen atom to which they are attached represent an optionally substituted 5- or 6- membered aliphatic or aromatic ring;

x is 0.1 to 3.8;

y is 0.1 to 3.8;

z is 0.1 to 3.8;

the sum of (x+y+z) is 4;

the substituents, represented by x, y and z, are attached only to a  $\beta$ -position on the phthalocyanine ring; and .

the mixture of dyes of Formula (3) obtainable by a process which comprises by cyclisation of  $\beta$ -sulfo substituted phthalic acid, phthalonitrile, iminoisoindoline, phthalic anhydride, phthalimide or phthalamide.

5. (original): A mixture of phthalocyanine dyes according to claim 1 obtainable by a process which comprises cyclisation of 4-sulfo-phthalic acid in the presence of a nitrogen source, a copper or nickel salt and a base.
6. (previously presented): A mixture of phthalocyanine dyes according to claim 1 or claim 2 wherein x has a value of 0.5 to 3.0, y has a value of 0.5 to 3.0 and z has a value of 0.5 to 3.0.
7. (previously presented): A mixture of phthalocyanine dyes according to claim 1 or claim 2 free from fibre reactive groups.
8. (previously presented): A composition comprising a mixture of phthalocyanine dyes according to claim 1 and a liquid medium.
9. (original): A composition according to claim 8 wherein the liquid media comprises a mixture of water and organic solvent or organic solvent free from water.
10. (original): A composition according to either claim 8 or claim 9 wherein at least 70% by weight of the total amount of phthalocyanine dye is of Formula (1).
11. (previously presented): A composition according to claim 8 or claim 9 wherein at least 95% by weight of the total amount of phthalocyanine dye is of Formula (1).

12. (previously presented): A composition that comprises:  
    (a) from 0.5 to 15 parts of a mixture of phthalocyanine dyes according to claim 1; and  
    (b) from 99.5 to 85 parts of a liquid medium;  
wherein all parts are by weight.
13. (original): A composition according to claim 12 that comprises:  
    (c) from 1 to 5 parts of a mixture of phthalocyanine dyes according to any one of claims 1 to 7; and  
    (d) from 99 to 95 parts of a liquid medium;  
wherein all parts are by weight.
14. (previously presented): A composition according to claim 8 or claim 9 which is an ink suitable for use in an ink jet printer.
15. (withdrawn): A process for forming an image on a substrate comprising applying an ink according to claim 14 thereto by means of an ink-jet printer.
16. (withdrawn): A material printed with a composition according to claim 8.
17. (withdrawn): An ink-jet printer cartridge comprising a chamber and an ink wherein the ink is in the chamber and the ink is as defined in claim 14.
18. (withdrawn): A material printed with a mixture of phthalocyanine dyes according to claim 1.
19. (new): A mixture of phthalocyanine dyes of Formula (1) and salts thereof according to claim 1 wherein M is Cu, R<sup>1</sup>, R<sup>2</sup> and R<sup>3</sup> are hydrogen, L is -CH<sub>2</sub>CH<sub>2</sub>- and R<sup>4</sup> and R<sup>5</sup> together with the nitrogen atom complete a morpholine ring.